## ABSTRACT OF THE DISCLOSURE

A cracking furnace having a firebox provided with cracking coils is described. The cracking coils have at least one inlet, at least one inlet section, at least one outlet and at least one outlet section, and burners, and the parts of the coils are shielded. A process for cracking hydrocarbon feeds, and making use of a furnace with the thermal shielding are also described.

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